	PROJECT DESCRIPTION		EQUIPMENT LIST (CONT.)		
I. GENERAL		В.	EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		<u>Phase chart</u>
This proje	ct involves the reconstruction of an existing Traffic Control	SPEC. NUMBER	DESCRIPTION QUANTITY		1 2 3 4 5 6 7 8 9 10 11 12 13 14
Signal wit MD 32 (Syk	ct involves the reconstruction of an existing Traffic Control h street lighting and interconnect at the intersection of esville Rd) and Burntwoods Road in Howard County. truction is due to intersection geometric improvements. esville Rd) is assumed to run a north-south direction.	556	5" yellow heat applied permanent 1980 L.F. preformed thermoplastic pavement		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
The recons MD 32 (Syk	truction is due to intersection geometric improvements. esville Rd) is assumed to run a north—south direction.	FF.C	marking		
II. INTERSECTI	ON OPERATION	556	10"yellow heat applied permanent 55 L.F. preformed thermoplastic pavement marking	C. EQUIPMENT TO BE RETURNED TO THE SHA	<b>4</b> G-/R <b>4</b> G-/R R FL/Y FL/Y <b>4</b> G-/R R R R R R R R R L
1. The i	ntersection is to operate in a NEMA six-phase, fully-actuated with the MD 32 (Sykesville Rd) approaches continuing to run	556	10" white heat applied permanent 270 L.F. preformed thermoplastic pavement	CHANGES TO PHASE	ES 1 & 6, 2 & 5 OR 2 & 6
concu for b	rrent. Exclusive/Permissive left turn phases shall now be provided oth approaches of MD 32 (Sykesville Rd). The Burntwoods Road		marking	All equipment to be removed shall become property of the contractor.  PHASE 1 & 6	<b>4</b> G-/G <b>4</b> G-/G G FL/Y FL/Y R R R R R R R R R R R R R R R R R R R
	aches shall now run concurrently.  I-traffic-actuated, eight-phase controller with two (2) four channel, rack	556	24" white heat applied permanent 125 L.F. preformed thermoplastic pavement marking	1 & 6 CHANGE	◆Y-/G ◆Y-/G G DARK DARK R R R R R R R R R R T
moun NEMA	t loop detector amplifiers and all necessary equipment housed in a size "6" base-mounted cabinet shall be installed at this intersection.	556	Furnish and install heat applied permanent 2 EA preformed thermoplastic pavement	PHASE 2 & 5	R R DARK DARK
III. SPECIAL NOTES			marking arrow. (right)	2 & 5 CHANGE	R R DARK DARK $4Y-/G$ $4Y-/G$ $G$ R R R R R $R$ $R$
1. The C	ontractor shall be responsible for terminating all signal cables.		Remove existing pavement 900 L.F. markings	PHASE 2 & 6	G G G DARK DARK G G G R R R R R
label	ding interconnect, to the appropriate terminals and shall properly each cable.		Remove raised pavement marker. 6 EA  Macadam patch (to patch 300' LUMP SUM	2 & 6 CHANGE	Y Y DARK DARK Y Y Y R R R R R T
2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.		0.45	of existing rumble strip)	PHASE 4 & 8  4 & 8 CHANGE	R R R FL/Y FL/Y R R R G G G G G G G G G G G G G G G G
3. The proposed signal structures must be painted brown (Federal Standard Number 595a-20040 as as described in the MSHA Special Provision for Painting New Galvanized Structures.		815	Saw cut for signal 435 420 L.F. (loop detector).	FLASHING	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4. All u	nderground and overhead utilities shown on these plans are schematic only ay not be complete. The Contractor shall be responsible for notifying Miss Utility	805	1" galvanized steel electrical 10 L.F. conduit (detector wire sleeve)	OPERATION	
prior perce	to construction so that all utilities may be located in the field. If the Contractor ives that a conflict between the utilities and the traffic signal will occur, the	805	1" liquid tight flexible 30 L.F. non-metallic conduit for		
CONTR	actor shall notify the Project Engineer immediately so that the conflict may be resolved.	805	detector sleeve.  Furnish and install 3" schedule 1305 <del>1320</del> L.F.	NOTE: THE PROPOSED NEW RUN OF INTERCONNECT. THE	WIRING DIAGRAM
	EQUIPMENT LIST		80 rigid polyvinyl chloride conduit – trenched	PROBES AND THE N.B. MD 32 LEFT TURN DETECTOR MUST BE TEMPORARILY WIRED INTO THE EXISTING	
Α.	EQUIPMENT TO BE FURNISHED BY THE SHA NONE	805	Furnish and install 4" schedule 90 <del>85</del> L.F. 80 rigid polyvinyl chloride conduit – trenched	CABINET AT BURNTWOODS UNTIL THE NEW SIGNAL IS COMPLETED.	LW E.H.K N.O.P.Q.R.S.T.U.V.Y
В.	EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR	805	Furnish and install 4" schedule 390 360 L.F.	Z <sub>B•c</sub>	A.B.C.D.E.F.G.H.W.X
SPEC.			80 rigid polyvinyl chloride conduit – bored.		+ ====================================
NUMBER 814	DESCRIPTION QUANTITY 12", one-way, three-section 6 EA	811	Furnish and install electrical 11 EA handhole.		B.C.O
	(R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and	810	Furnish and install loop wire 1460 1445 L.F. encased in flexible tubing (No. 14 AWG).	B.C U	
814	tunnel visors.  8", one-way, three-section 2 EA	810	Furnish and install electrical 630 515 L.F.	B.C.J	± ★
	(R,Y,G) traffic signal head with adjustable bracket for mast arm mounting and	040	cable - 2 conductor (aluminum shielded).	B, J	A.D.F.G.N.Q.— N
814	tunnel visors.  12", one-way, five-section  2 EA	810	Furnish and install 5-conductor electrical 120 L.F. cable (No. 14 A.W.G.).	s s	D D,L
014	(R,Y,YA,G,GÅ) traffic signal head with adjustable bracket	810	Furnish and install 7-conductor electrical 1650 <del>1640</del> L.F. cable (No. 14 A.W.G.).	X TO	F.G.S.W.X
	for mast arm mounting and tunnel visors.	810	Furnish and install ground 5 EA rod -3/4" x 10'.	A Change of the same of the sa	A,D
814	Combination 8"-12", one-way, 2 EA five-section (8"-R,Y,G) (12"- YA,GA) (left arrows) traffic signal	810	Furnish and install No. 6 540 535 L.F. AWG stranded bare copper	S.X—S.X—F,G,W—F,	
	head with adjustable bracket for mast arm mounting and tunnel visors.	810	ground wire.  Furnish and install tray cable - 330 -370-L.F.	1,0,4,-	F.G.M— G ///
	Eight-phase, full-traffic 1 EA actuated, solid state digital		2 conductor (No. 12 AWG)  Relocate existing overhead or 1 EA		/// R
	controller with (2) 4-channel, rack mount loop detector		ground mounted sign  Remove and dispose of existing signal LUMP SUM		
	amplifiers and detector rack power supply housed in a NEMA size "6" base- mounted cabinet	812	equipment.		
205	Test pit excavation. 5 C.Y.		supports (4"x4").		(R)
801	Furnish and install concrete 17 C.Y. for signal foundation.	812	Furnish and install wood sign 70 L.F. supports (4"x6").		
813	Ground mounted sheet aluminum signs 41 S.F. to consist of:	806	Furnish and install 250 watt 2 EA HPS Luminaire with photocell.		A) WIDNO KEY
	D3-2 (MOD) "(arrow) Burntwoods 1 Each Road / Andrea Drive (arrow)/ NEXT SIGNAL" (72"X36") ground mounted.	808	Furnish and install 15' lighting 2 EA bracket arm for traffic signal structure.	The contact persons for District #7 are as follows:	WIRING KEY  D 7-CONDUCTOR ELECTRICAL  W - STRANDED BARE COPPER GROUND
	D3-2 (MOD) "(arrow) Andrea Drive / 1 Each		Cut, clean and cap mast arm / steel pole. 1 EA	Mr. John Concannon	WIRE (NO. 6 A.W.G.)
	Burntwoods Road (arrow) / NEXT SIGNAL" (72" x 36") ground mounted.		Remove and dispose of existing 2 EA foundation 12" below grade.	Assistant District Engineer - Traffic Phone: (310) 624-8141	X - 5-CONDUCTOR ELECTRICAL CABLE (NO. 10 A.W.G)  K 5-CONDUCTOR ELECTRICAL
	R1-2 "YIELD" (36"x36"x36") 1 Each ground mounted.	807	Furnish and install control 1 EA and distribution equipment	Mr. Dave Coyne Assistant District Engineer - Maintenance	Y - 12-PAIR VOICE GRADE INTERCONNECT CABLE TO BE INSTALLED FROM EXISTING CABINET AT TEN DAKS RD TO EXISTING
	R3-7R "RIGHT LANE MUST TURN 2 Each RIGHT" (30"X30") ground mounted.		(120/240 V. 1 phase 3 wire system).	Phone: (310) 624-8106	CABINET AT BURNTWOODS
813	Overhead mounted sheet 96 S.F. aluminum sign consisting of:		Furnish and install 27' steel pole (brown 1 EA Fed Std 595a-20040) pole and 50' mast arm.	Mr. Jim Buckalew District Engineer - Utility	P CABLE (NO. 14 A.W.G.)  Q ALUMINUM SHIELDED  R PROPOSED UNDERGROUND SERVICE
	D3-2 "(arrow) Andrea Dr/ Burntwoods 1 Each Rd (arrow)" (variable x 32") mast		Furnish and install 27' steel pole (brown 1 EA Fed Std 595a-20040) pole and 50' (cut to 40')	Phone: (301) 624-8110	PS- PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY BGE  TO BE INSTALLED BY BGE
	arm mounted.		mast arm.  Furnish and install 27' steel pole (brown 1 EA Fed Std 595a-20040) pole and 60' mast arm.	Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787–7630	+ - GROUND ROD  U
	D3-2 "(arrow) Burntwoods Rd / Andrea 1 Each Dr (arrow)" (variable x 32") mast arm mounted.				V J VADLE (NU. 12 A.W.U )
	M95-1 "Sykesville Rd." (W/GR)/ 1 Each "SOUTH (ARROW) MD 32 NORTH (arrow)" (BLK/W) (72" x 36") mast		Furnish and install 27' steel pole (brown 1 EA Fed Std 595a-20040) pole and 70' mast arm.  Furnish and install micro-loop with 1000' 2 EA		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
	arm mounted.		lead-in.	<u></u>	TO A DELIC ENCINEEDING DESIGN DIVISION
	R3-5R "RIGHT TURN ONLY" 2 Each sign. (30" x 36") mast arm mounted.		Remove and dispose of lighting pole, arm 1 EA and luminaire.		TRAFFIC ENGINEERING DESIGN DIVISION
	R10-12 "LEFT TURN YIELD 2 Each ON GREEN (BALL)" sign.	810	Furnish and install 5-conductor electrical 1090 <del>1080</del> L.F. cable (No. 10 A.W.G.).		MD 32 (SYKESVILLE RD) AND BURNTWOODS RD
	(36" x 42") mast arm mounted.		Pull back Reroute existing interconnect 150 1660 L.F. cable.	STREET TRAFFIC	STUDIES ITD
556	Raised pavement marker. 10 Each 5" white heat applied permanent 1885 L.F.	810	Furnish and install 12-pair 1400 L.F. communication cable, underground	400 Crain in Gien Burnie, i	DRAWN BY: RUB CICCHINI F.A.P. NO. SHEET NO. SHEET NO.
330	preformed thermoplastic pavement marking		(jelly filled)	Ph (410) 59 Fax (410) 59 4211 gi. dgn	05500 COALE NONE COUNTY HOWARD TIMENO

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